

## ABSTRACT OF THE DISCLOSURE

Pixel electrodes on an active-matrix substrate do not overlap signal lines and scanning lines, and satisfy a relation  $X1 > Y1$ , where  $X1$  is the gap between the pixel electrodes and the signal lines, and  $Y1$  is the gap between the pixel electrodes and the scanning lines. As a result, a large-area and high-resolution electromagnetic wave detector is realized with an improved S/N ratio, even with an active-matrix array providing a large area for the charge collecting electrodes.